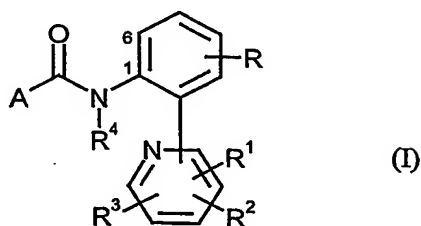


Patent Claims

1. Pyridinylanilides of the formula (I)



5 in which

R represents hydrogen, fluorine, chlorine, methyl or trifluoromethyl;

R¹, R² and R³ independently of one another each represents hydrogen, halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl;

10 or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkylsulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;

or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

15 or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

20 or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxy carbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

or represents in each case the grouping $-C(Q^1)=N-Q^2$, wherein

Q¹ represents hydrogen, hydroxyl or C₁-C₄-alkyl, C₁-C₄-halogenoalkyl having 1 to 9 identical or different halogen atoms, or C₃-C₆-cycloalkyl and

30 Q² represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C₁-C₄-alkyl or C₁-C₄-alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylamino, di(C₁-C₄-

alkyl)amino or phenyl; or represents C₂-C₄-alkenyloxy or C₂-C₄-alkynyloxy, represents phenyl, phenoxy, phenylthio, benzoyl, benzoylethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C₁-C₄-alkyl and C₁-C₄-alkoxy;

or

R² and R³, if attached to the pyridinyl moiety in ortho position to each other, furthermore together represent C₃-C₄-alkylene, C₃-C₄-alkenylene, C₂-C₃-oxyalkylene or C₁-C₂-dioxyalkylene, in each case optionally mono- to tetra-substituted, identically or differently, by fluorine, chlorine, oxo, methyl, ethyl, trifluoromethyl;

R⁴ represents hydrogen, C₁-C₈-alkyl, C₁-C₆-alkylsulfinyl, C₁-C₆-alkylsulfonyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-cycloalkyl; C₁-C₆-halogenoalkyl, C₁-C₄-halogenoalkylthio, C₁-C₄-halogenoalkylsulfinyl, C₁-C₄-halogenoalkylsulfonyl, halogeno-C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms; formyl-C₁-C₃-alkyl, (C₁-C₃-alkyl)carbonyl-C₁-C₃-alkyl, (C₁-C₃-alkoxy)carbonyl-C₁-C₃-alkyl; (C₁-C₃-halogenoalkyl)carbonyl-C₁-C₃-alkyl, (C₁-C₃-halogenoalkoxy)carbonyl-C₁-C₃-alkyl having in each case 1 to 7 fluorine-, chlorine- and/or bromine atoms, (C₁-C₃-alkyl)carbonyl-C₁-C₃-halogenoalkyl, (C₁-C₃-alkoxy)carbonyl-C₁-C₃-halogenoalkyl having in each case 1 to 6 fluorine-, chlorine- and/or bromine atoms, (C₁-C₃-halogenoalkyl)carbonyl-C₁-C₃-halogenoalkyl, (C₁-C₃-halogenoalkoxy)carbonyl-C₁-C₃-halogenoalkyl having in each case 1 to 13 fluorine-, chlorine- and/or bromine atoms; -COR⁵, -CONR⁶R⁷ or -CH₂NR⁸R⁹,

R⁵ represents hydrogen, C₁-C₈-alkyl, C₁-C₈-alkoxy, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-cycloalkyl; C₁-C₆-halogenoalkyl, C₁-C₆-halogenoalkoxy, halogeno-C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms; or -COR¹⁰,

R⁶ and R⁷ independently of one another each represent hydrogen, C₁-C₈-alkyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-cycloalkyl; C₁-C₈-halogenoalkyl, halogeno-C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-halogenocycloalkyl having in each case 1 bis 9 fluorine-, chlorine- and/or bromine atoms,

R⁶ and R⁷ furthermore together with the nitrogen atom to which they are attached, represent a saturated 5- to 8-membered heterocycle, which heterocycle may have 1 or 2 additional, non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR¹¹, and which heterocycle may optionally be mono- to poly-substitu-

ted, identically or differently, by halogen or C₁-C₄-alkyl,

R⁸ and R⁹ independently of one another each represent hydrogen, C₁-C₈-alkyl, C₃-C₈-cycloalkyl; C₁-C₈-halogenoalkyl, C₃-C₈-halogenocycloalkyl having in each case 1 bis 9 fluorine-, chlorine- and/or bromine atoms,

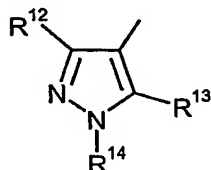
5 R⁸ and R⁹ furthermore together with the nitrogen atom to which they are attached, represent a saturated 5- to 8-membered heterocycle, which heterocycle may have 1 or 2 additional, non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR¹¹, and which heterocycle may optionally be mono- to poly-substituted, identically or differently, by halogen or C₁-C₄-alkyl,

10 R¹⁰ represents hydrogen, C₁-C₈-alkyl, C₁-C₈-alkoxy, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-cycloalkyl; C₁-C₆-halogenoalkyl, C₁-C₆-halogenoalkoxy, halogeno-C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms,

R¹¹ represents hydrogen or C₁-C₆-alkyl,

15

A represents a radical of the formula (A1)



(A1), wherein

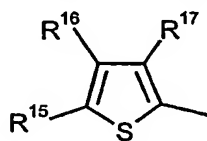
20 R¹² represents hydrogen, cyano, halogen, nitro, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₃-C₆-cycloalkyl, C₁-C₄-halogenoalkyl, C₁-C₄-halogenoalkoxy or C₁-C₄-halogenoalkylthio each having 1 to 5 halogen atoms, aminocarbonyl or aminocarbonyl-C₁-C₄-alkyl and

R¹³ represents hydrogen, halogen, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy or C₁-C₄-alkylthio and

25 R¹⁴ represents hydrogen, C₁-C₄-alkyl, hydroxy-C₁-C₄-alkyl, C₂-C₆-alkenyl, C₃-C₆-cycloalkyl, C₁-C₄-alkylthio-C₁-C₄-alkyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₁-C₄-halogenoalkyl, C₁-C₄-halogenoalkylthio-C₁-C₄-alkyl, C₁-C₄-halogenoalkoxy-C₁-C₄-alkyl each having 1 to 5 halogen atoms, or phenyl,

or

A represents a radical of the formula (A2)



(A2), wherein

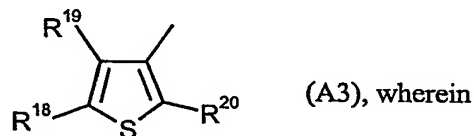
30

R¹⁵ and R¹⁶ independently of one another each represent hydrogen, halogen, C₁-C₄-

alkyl or C₁-C₄-halogenoalkyl having 1 to 5 halogen atoms and
 R¹⁷ represents halogen, cyano or C₁-C₄-alkyl, or C₁-C₄-halogenoalkyl or C₁-C₄-
 halogenoalkoxy each having 1 to 5 halogen atoms,

or

5 A represents a radical of the formula (A3)



R¹⁸ and R¹⁹ independently of one another each represent hydrogen, halogen, C₁-C₄-
 alkyl or C₁-C₄-halogenoalkyl having 1 to 5 halogen atoms and
 R²⁰ represents hydrogen, halogen, C₁-C₄-alkyl or C₁-C₄-halogenoalkyl having 1
 10 to 5 halogen atoms,

or

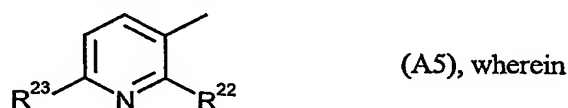
A represents a radical of the formula (A4)



R²¹ represents hydrogen, halogen, hydroxyl, cyano, C₁-C₆-alkyl, C₁-C₄-halo-
 15 genoalkyl, C₁-C₄-halogenoalkoxy or C₁-C₄-halogenoalkylthio each having 1
 to 5 halogen atoms,

or

A represents a radical of the formula (A5)



R²² represents halogen, hydroxyl, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkyl-
 20 thio, C₁-C₄-halogenoalkyl, C₁-C₄-halogenoalkylthio or C₁-C₄-halogenoalkoxy
 each having 1 to 5 halogen atoms and

R²³ represents hydrogen, halogen, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkyl-
 thio, C₁-C₄-halogenoalkyl, C₁-C₄-halogenoalkoxy each having 1 to 5 halogen
 25 atoms, C₁-C₄-alkylsulphanyl or C₁-C₄-alkylsulphonyl,

or

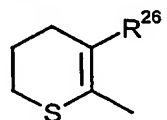
A represents a radical of the formula (A6)



- R^{24} represents C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms and
 R^{25} represents C_1 - C_4 -alkyl,
 Q^3 represents a sulphur or oxygen atom, represents SO , SO_2 or CH_2 ,
 p represents 0, 1 or 2, where R^{25} represents identical or different radicals if p represents 2,

or

A represents a radical of the formula (A7)

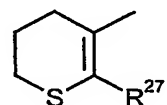


(A7), wherein

R^{26} represents C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A8)

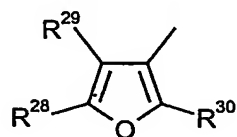


(A8), wherein

R^{27} represents C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A9)



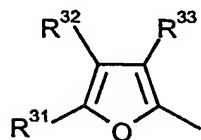
(A9), wherein

R^{28} and R^{29} independently of one another each represent hydrogen, halogen, amino, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms and

R^{30} represents hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A10)



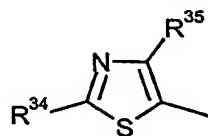
(A10), wherein

R^{31} and R^{32} independently of one another each represent hydrogen, halogen, amino, nitro, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms and

R^{33} represents hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A11)



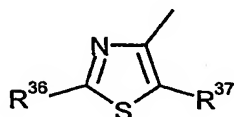
(A11), wherein

R^{34} represents hydrogen, halogen, amino, C_1 - C_4 -alkylamino, di- $(C_1$ - C_4 -alkyl)-amino, cyano, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms and

R^{35} represents halogen, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A12)



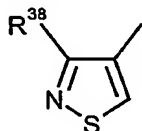
(A12), wherein

R^{36} represents hydrogen, halogen, amino, C_1 - C_4 -alkylamino, di- $(C_1$ - C_4 -alkyl)-amino, cyano, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms and

R^{37} represents halogen, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A13)

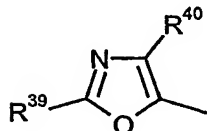


(A13), wherein

R^{38} represents halogen, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A14)



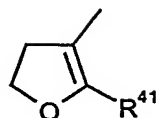
(A14), wherein

R^{39} represents hydrogen or C_1 - C_4 -alkyl and

R^{40} represents halogen or C_1 - C_4 -alkyl,

or

A represents a radical of the formula (A15)

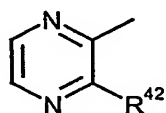


(A15), wherein

R^{41} represents C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A16)

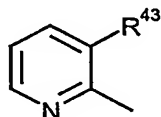


(A16), wherein

R^{42} represents hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -halogenoalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula (A17)



(A17), wherein

R^{43} represents halogen, hydroxyl, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -halogenoalkyl, C_1 - C_4 -halogenoalkylthio or C_1 - C_4 -halogenoalkoxy each having 1 to 5 halogen atoms,

15 excluded compounds of the formula (I), in which

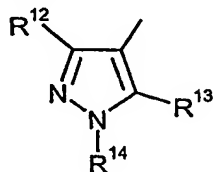
R represents hydrogen and

R^1 , R^2 and R^3 independently of one another each represents hydrogen, halogen; or straight-chain or branched alkyl having 1 to 4 carbon atoms; or straight-chain or branched halogenoalkyl having 1 to 4 carbon atoms; and

20 R^4 represents hydrogen

and

A represents a radical of the formula (A1)



(A1), wherein

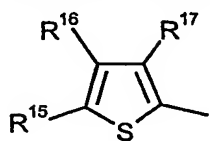
R^{12} represents halogen, C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl and

R^{13} represents hydrogen and

R^{14} represents methyl,

or

A represents a radical of the formula (A2)

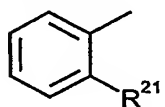


(A2), wherein

R¹⁵ and R¹⁶ independently of one another each represent hydrogen or C₁-C₄-alkyl and R¹⁷ represents halogen, C₁-C₄-alkyl or C₁-C₄-halogenoalkyl,

5 or

A represents a radical of the formula (A4)

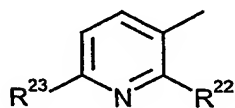


(A4), wherein

R²¹ represents halogen, C₁-C₄-alkyl or C₁-C₄-halogenoalkyl,

or

10 A represents a radical of the formula (A5)



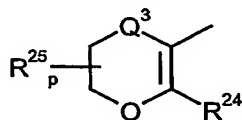
(A5), wherein

R²² represents halogen and

R²³ represents hydrogen,

or

15 A represents a radical of the formula (A6)



(A6), wherein

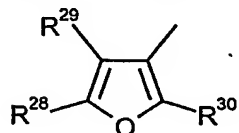
R²⁴ represents methyl and

Q³ represents a sulphur or CH₂,

p represents 0,

20 or

A represents a radical of the formula (A9)



(A9), wherein

R²⁸ and R²⁹ independently of one another each represent hydrogen or C₁-C₄-alkyl and

R³⁰ represents methyl,

25 or

A represents a radical of the formula (A11)



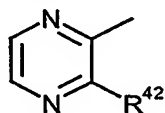
(A11), wherein

R^{34} represents hydrogen or C₁-C₄-alkyl and

R^{35} represents halogen, C₁-C₄-alkyl or C₁-C₄-halogenoalkyl,

or

5 A represents a radical of the formula (A16)



(A16), wherein

R^{42} represents halogen.

2. Pyridinylanilides of the formula (I) according to Claim 1, in which

10 R represents hydrogen, fluorine, chlorine, methyl or trifluoromethyl;

R^1 , R^2 and R^3 independently of one another each represents hydrogen, halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl;

15 or represents in each case straight-chain or branched alkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, alkylthio, alkylsulfinyl or alkylsulfonyl having in each case 1 to 6 carbon atoms;

or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 4 carbon atoms and 1 to 9 identical or different halogen atoms;

20 or represents in each case straight-chain or branched alkylamino, dialkylamino, alkyl-carbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 4 carbon atoms in the respective hydrocarbon chain;

or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

25 or represents the grouping $-C(Q^1)=N-Q^2$, wherein

Q^1 represents hydrogen, hydroxyl or C₁-C₄-alkyl, C₁-C₄-halogenoalkyl having 1 to 9 identical or different halogen atoms or C₃-C₆-cycloalkyl and

Q^2 represents hydroxyl, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-halogenoalkyl or C₁-C₄-halogenoalkoxy each having 1 to 9 identical or different halogen atoms,

30 or

R^2 and R^3 , if attached to the pyridinyl moiety in ortho position to each other, furthermore together represent $-(CH_2)_3-$, $-(CH_2)_4-$, $-CH=CH-CH=CH-$, $-O(CH_2)_2-$, $-O(CH_2)_3-$,

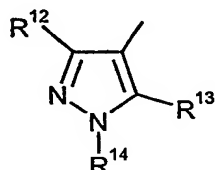
-OCH₂O-, -O(CH₂)₂O-, in each case optionally mono- to tetra-substituted, identically or differently, by fluorine, chlorine, oxo, methyl, ethyl, trifluoromethyl,

- 5 R^4 represents hydrogen; C₁-C₆-alkyl, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-cycloalkyl; C₁-C₄-halogenoalkyl, C₁-C₄-halogenoalkylthio, C₁-C₄-halogenoalkylsulfinyl, C₁-C₄-halogenoalkylsulfonyl, halogeno-C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms; formyl-C₁-C₃-alkyl, (C₁-C₃-alkyl)carbonyl-C₁-C₃-alkyl, (C₁-C₃-alkoxy)carbonyl-C₁-C₃-alkyl; (C₁-C₃-halogenoalkyl)carbonyl-C₁-C₃-alkyl, (C₁-C₃-halogenoalkoxy)carbonyl-C₁-C₃-alkyl having in each case 1 to 7 fluorine-, chlorine- and/or bromine atoms, (C₁-C₃-alkyl)carbonyl-C₁-C₃-halogenoalkyl, (C₁-C₃-alkoxy)-carbonyl-C₁-C₃-halogenoalkyl having in each case 1 to 6 fluorine-, chlorine- and/or bromine atoms, (C₁-C₃-halogenoalkyl)carbonyl-C₁-C₃-halogenoalkyl, (C₁-C₃-halogenoalkoxy)carbonyl-C₁-C₃-halogenoalkyl having in each case 1 to 13 fluorine-, chlorine- and/or bromine atoms; -COR⁵, -CONR⁶R⁷ or -CH₂NR⁸R⁹,
- 10 R^5 represents hydrogen, C₁-C₆-alkyl, C₁-C₄-alkoxy, C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-cycloalkyl; C₁-C₄-halogenoalkyl, C₁-C₄-halogenoalkoxy, halogeno-C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms; or -COR¹⁰,
- 15 R^6 and R^7 independently of one another each represent hydrogen, C₁-C₆-alkyl, C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-cycloalkyl; C₁-C₄-halogenoalkyl, halogeno-C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms,
- 20 R^6 and R^7 furthermore together with the nitrogen atom to which they are attached, represent a saturated 5- to 8-membered heterocycle, which heterocycle may have 1 or 2 additional, non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR¹¹, and which heterocycle may optionally be mono- to tetra-substituted, identically or differently, by halogen or C₁-C₄-alkyl,
- 25 R^8 and R^9 independently of one another each represent hydrogen, C₁-C₆-alkyl, C₃-C₆-cycloalkyl; C₁-C₄-halogenoalkyl, C₃-C₆-halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms,
- 30 R^8 and R^9 furthermore together with the nitrogen atom to which they are attached, represent a saturated 5- to 8-membered heterocycle, which heterocycle may have 1 or 2 additional, non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR¹¹, and which heterocycle may optionally be mono- to tetra-substituted, identically or differently, by halogen or C₁-C₄-alkyl,
- 35

R^{10} represents hydrogen, C_1 - C_6 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -cycloalkyl; C_1 - C_4 -halogenoalkyl, C_1 - C_4 -halogenoalkoxy, halogeno- C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms,

5 R^{11} represents hydrogen or C_1 - C_4 -alkyl,

A represents a radical of the formula (A1)



(A1), wherein

10 R^{12} represents hydrogen, cyano, fluorine, chlorine, bromine, iodine, methyl, ethyl, iso-propyl, methoxy, ethoxy, methylthio, ethylthio, cyclopropyl, C_1 - C_2 -halogenoalkyl, C_1 - C_2 -halogenoalkoxy each having 1 to 5 fluorine, chlorine and/or bromine atoms, trifluoromethylthio, difluoromethylthio, aminocarbonyl, aminocarbonylmethyl or aminocarbonyl ethyl and

15 R^{13} represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, methoxy, ethoxy, methylthio or ethylthio and

R^{14} represents hydrogen, methyl, ethyl, n-propyl, iso-propyl, C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, hydroxymethyl, hydroxyethyl, cyclopropyl, cyclopentyl, cyclohexyl or phenyl,

or

20 A represents a radical of the formula (A2)



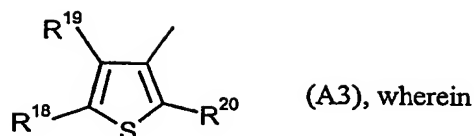
(A2), wherein

R^{15} and R^{16} independently of one another each represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

25 R^{17} represents fluorine, chlorine, bromine, cyano, methyl, ethyl, C_1 - C_2 -halogenoalkyl or C_1 - C_2 -halogenoalkoxy each having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents a radical of the formula (A3)



R^{18} and R^{19} independently of one another each represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

5 R^{20} represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

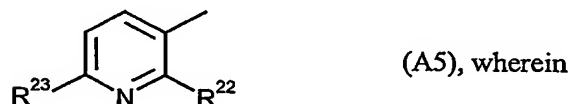
A represents a radical of the formula (A4)



10 R^{21} represents hydrogen, fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C_1 - C_4 -alkyl, C_1 - C_2 -halogenoalkyl, C_1 - C_2 -halogenoalkoxy or C_1 - C_2 -halogenoalkylthio each having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents a radical of the formula (A5)



15 R^{22} represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, difluoromethylthio, trifluoromethylthio, C_1 - C_2 -halogenoalkyl or C_1 - C_2 -halogenoalkoxy each having 1 to 5 fluorine, chlorine and/or bromine atoms and

20 R^{23} represents hydrogen, fluorine, chlorine, bromine, iodine, cyano, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, C_1 - C_2 -halogenoalkyl or C_1 - C_2 -halogenoalkoxy each having 1 to 5 fluorine, chlorine and/or bromine atoms, C_1 - C_2 -alkylsulphinyl or C_1 - C_2 -alkylsulphonyl,

or

25 A represents a radical of the formula (A6)

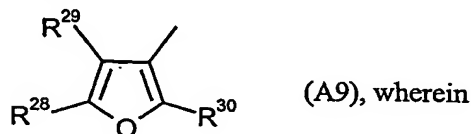


R^{24} represents methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

- R^{25} represents methyl or ethyl,
 Q^3 represents a sulphur atom, SO_2 or CH_2 ,
 p represents 0 or 1,

or

- 5 A represents a radical of the formula (A9)



R^{28} and R^{29} independently of one another each represent hydrogen, fluorine, chlorine, bromine, amino, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

- 10 R^{30} represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

- A represents a radical of the formula (A10)



- 15 R^{31} and R^{32} independently of one another each preferably represent hydrogen, fluorine, chlorine, bromine, amino, nitro, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

R^{33} represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

- 20 or

- A represents a radical of the formula (A11)

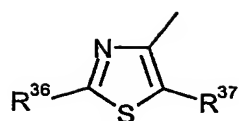


R^{34} represents hydrogen, fluorine, chlorine, bromine, amino, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino, cyano, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

- 25 R^{35} represents fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

- A represents a radical of the formula (A12)



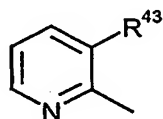
(A12), wherein

R^{36} represents hydrogen, fluorine, chlorine, bromine, amino, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino, cyano, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

5 R^{37} represents fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -halogenoalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents a radical of the formula (A17)



(A17), wherein

10 R^{43} preferably represents fluorine, chlorine, bromine, iodine, hydroxyl, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, difluoromethylthio, trifluoromethylthio, C_1 - C_2 -halogenoalkyl or C_1 - C_2 -halogenoalkoxy each having 1 to 5 fluorine, chlorine and/or bromine atoms,

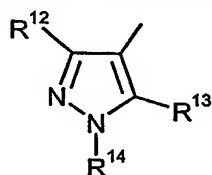
15 excluded compounds of the formula (I), in which

R represents hydrogen and

R^1 , R^2 and R^3 independently of one another each represents hydrogen, halogen; or straight-chain or branched alkyl having 1 to 4 carbon atoms; or straight-chain or branched halogenoalkyl having 1 to 4 carbon atoms; and

20 R^4 represents hydrogen and

A represents a radical of the formula (A1)



(A1), wherein

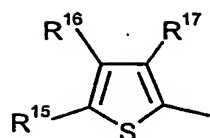
25 R^{12} represents fluorine, chlorine, bromine, iodine, methyl, ethyl, iso-propyl, C_1 - C_2 -halogenoalkyl and

R^{13} represents hydrogen and

R^{14} represents methyl,

or

A represents a radical of the formula (A2)



(A2), wherein

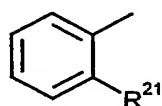
R^{15} and R^{16} independently of one another each represent hydrogen, methyl or ethyl
and

R^{17} represents fluorine, chlorine, bromine, methyl, ethyl, or C_1 - C_2 -halogenoalkyl,

5

or

A represents a radical of the formula (A4)



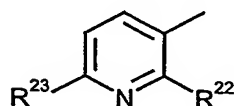
(A4), wherein

R^{21} represents fluorine, chlorine, bromine, iodine, C_1 - C_4 -alkyl or C_1 - C_2 -halogenoalkyl,

10

or

A represents a radical of the formula (A5)



(A5), wherein

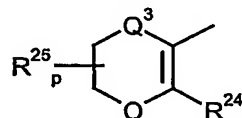
R^{22} represents fluorine, chlorine, bromine, iodine and

R^{23} represents hydrogen,

15

or

A represents a radical of the formula (A6)



(A6), wherein

R^{24} represents methyl and

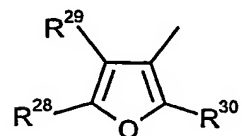
Q^3 represents a sulphur or CH_2 ,

20

p represents 0,

or

A represents a radical of the formula (A9)



(A9), wherein

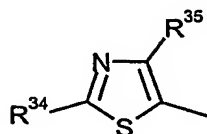
R^{28} and R^{29} independently of one another each represent hydrogen, methyl or ethyl
and

R^{30} represents methyl,

25

or

A represents a radical of the formula (A11)



(A11), wherein

R^{34} represents hydrogen, methyl or ethyl and

5 R^{35} represents fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -halogenoalkyl.

3. Pyridinylanilides of the formula (I) according to Claim 1, in which

R represents hydrogen, fluorine, chlorine, methyl or trifluoromethyl;

10 R^1 , R^2 and R^3 independently of one another each represents hydrogen, fluorine, chlorine, bromine, cyano; methyl, ethyl, n- or iso-propyl, n-, iso-, sec- or tert-butyl, methoxy, ethoxy, n- or iso-propoxy, n-, iso-, sec- or tert-butoxy, methylthio, ethylthio, n- or iso-propylthio, n-, iso-, sec- or tert-butylthio, trifluoromethyl, trifluoroethyl, difluoromethoxy, trifluoromethoxy, difluorochloromethoxy, trifluoroethoxy, cyclopropyl, cyclopentyl, cyclohexyl,

15 or represents the grouping $-C(Q^1)=N-Q^2$, wherein

Q^1 represents hydrogen, methyl, ethyl, trifluoromethyl or cyclopropyl, and

Q^2 represents hydroxyl, methoxy, ethoxy, n-propoxy or iso-propoxy,

or

20 R^2 and R^3 , if attached to the pyridinyl moiety in ortho position to each other, furthermore together represent $-(CH_2)_3-$, $-(CH_2)_4-$, $-CH=CH-CH=CH-$, $-OCH_2O-$, $-O(CH_2)_2O-$, $-OCF_2O-$, $-O(CF_2)_2O-$,

25 R^4 represents hydrogen, methyl, ethyl, n- or iso-propyl, n-, iso-, sec- or tert-butyl, pentyl or hexyl, methylsulfinyl, ethylsulfinyl, n- or isopropylsulfinyl, n-, iso-, sec- or tert-butylsulfinyl, methylsulfonyl, ethylsulfonyl, n- or isopropylsulfonyl, n-, iso-, sec- or tert-butylsulfonyl, methoxymethyl, methoxyethyl, ethoxymethyl, ethoxyethyl, cyclopropyl, cyclopentyl, cyclohexyl, trifluoromethyl, trichloromethyl, trifluoroethyl, difluoromethylthio, difluorochloromethylthio, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl, trifluoromethoxymethyl; $-CH_2-CHO$,
30 $-CH_2CH_2-CHO$, $-CH_2-CO-CH_3$, $-CH_2-CO-CH_2CH_3$, $-CH_2-CO-CH(CH_3)_2$,
 $-CH_2CH_2-CO-CH_3$, $-CH_2CH_2-CO-CH_2CH_3$, $-CH_2CH_2-CO-CH(CH_3)_2$,
 $-CH_2-C(O)OCH_3$, $-CH_2-C(O)OCH_2CH_3$, $-CH_2-C(O)OCH(CH_3)_2$,
 $-CH_2CH_2-C(O)OCH_3$, $-CH_2CH_2-C(O)OCH_2CH_3$, $-CH_2CH_2-C(O)OCH(CH_3)_2$,
 $-CH_2-CO-CF_3$, $-CH_2-CO-CCl_3$, $-CH_2-CO-CH_2CF_3$, $-CH_2-CO-CH_2CCl_3$,

$-\text{CH}_2\text{CH}_2-\text{CO}-\text{CH}_2\text{CF}_3$, $-\text{CH}_2\text{CH}_2-\text{CO}-\text{CH}_2\text{CCl}_3$, $-\text{CH}_2-\text{C}(\text{O})\text{OCH}_2\text{CF}_3$,
 $-\text{CH}_2-\text{C}(\text{O})\text{OCF}_2\text{CF}_3$, $-\text{CH}_2-\text{C}(\text{O})\text{OCH}_2\text{CCl}_3$, $-\text{CH}_2-\text{C}(\text{O})\text{OCCl}_2\text{CCl}_3$,
 $-\text{CH}_2\text{CH}_2-\text{C}(\text{O})\text{OCH}_2\text{CF}_3$, $-\text{CH}_2\text{CH}_2-\text{C}(\text{O})\text{OCF}_2\text{CF}_3$, $-\text{CH}_2\text{CH}_2-\text{C}(\text{O})\text{OCH}_2\text{CCl}_3$,
 $-\text{CH}_2\text{CH}_2-\text{C}(\text{O})\text{O}-\text{CCl}_2\text{CCl}_3$; $-\text{COR}^5$, $-\text{CONR}^6\text{R}^7$ or $-\text{CH}_2\text{NR}^8\text{R}^9$,

5 R^5 represents hydrogen, methyl, ethyl, n- or iso-propyl, tert-butyl, methoxy, ethoxy, tert-butoxy, cyclopropyl; trifluoromethyl, trifluoromethoxy; or $-\text{COR}^{10}$,

R^6 and R^7 independently of one another each represent hydrogen, methyl, ethyl, n- or iso-propyl, n-, iso-, sec- or tert-butyl, methoxymethyl, methoxyethyl, ethoxymethyl, ethoxyethyl, cyclopropyl, cyclopentyl, cyclohexyl; trifluoromethyl, trichloromethyl, trifluoroethyl, trifluoromethoxymethyl,

R^6 and R^7 furthermore together with the nitrogen atom to which they are attached, represent a saturated heterocycle selected from the group consisting of morpholine, thiomorpholine and piperazine, which heterocycle may optionally be mono- to tetra-substituted, identically or differently, by fluorine, chlorine, bromine or methyl and where the piperazine additionally at the second nitrogen atom may be substituted by R^{11} ,

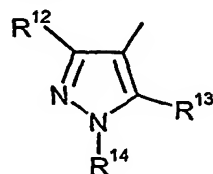
R^8 and R^9 independently of one another each represent hydrogen, methyl, ethyl, n- or iso-propyl, n-, iso-, sec- or tert-butyl, methoxymethyl, methoxyethyl, ethoxymethyl, ethoxyethyl, cyclopropyl, cyclopentyl, cyclohexyl; trifluoromethyl, trichloromethyl, trifluoroethyl, trifluoromethoxymethyl,

R^8 and R^9 furthermore together with the nitrogen atom to which they are attached, represent a saturated heterocycle selected from the group consisting of morpholine, thiomorpholine and piperazine, which heterocycle may optionally be mono- to tetra-substituted, identically or differently, by fluorine, chlorine, bromine or methyl and where the piperazine additionally at the second nitrogen atom may be substituted by R^{11} ,

25 R^{10} represents hydrogen, methyl, ethyl, n- or iso-propyl, tert-butyl, methoxy, ethoxy, n- or iso-propoxy, tert-butoxy, cyclopropyl; trifluoromethyl, trifluoromethoxy,

R^{11} represents hydrogen, methyl, ethyl, n- or iso-propyl, n-, iso-, sec- or tert-butyl,

A represents a radical of the formula (A1)



(A1), wherein

30

R^{12} represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, iso-propyl, monofluoromethyl, monofluoroethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, trichloromethyl, dichloromethyl, cyclopropyl,

methoxy, ethoxy, trifluoromethoxy, trichloromethoxy, methylthio, ethylthio, trifluoromethylthio or difluoromethylthio and

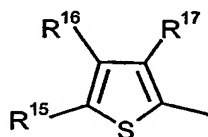
R^{13} represents hydrogen, fluorine, chlorine, bromine, iodine or methyl and

R^{14} represents hydrogen, methyl, ethyl, iso-propyl, trifluoromethyl, difluoromethyl, hydroxymethyl, hydroxyethyl or phenyl,

5

or

A represents a radical of the formula (A2)



(A2), wherein

R^{15} and R^{16} independently of one another each represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl or trichloromethyl and

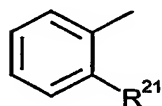
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R^{17} represents fluorine, chlorine, bromine, cyano, methyl, trifluoromethyl, trifluoromethoxy, difluoromethoxy, difluorochloromethoxy or trichloromethoxy,

15

or

A represents a radical of the formula (A4)



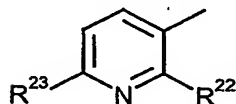
(A4), wherein

R^{21} represents hydrogen, fluorine, chlorine, bromine, iodine, hydroxyl, cyano, methyl, ethyl, n-propyl, iso-propyl, n-butyl, iso-butyl, sec-butyl, tert-butyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, trichloromethyl, trifluoromethoxy, difluoromethoxy, difluorochloromethoxy, trichloromethoxy, trifluoromethylthio, difluoromethylthio, difluorochloromethylthio or trichloromethylthio,

20

or

A represents a radical of the formula (A5)



(A5), wherein

R^{22} represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano, methyl, ethyl, n-propyl, iso-propyl, n-butyl, iso-butyl, sec-butyl, tert-butyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, trichloromethyl, methoxy, ethoxy, methylthio, ethylthio, difluoromethylthio, trifluoromethylthio, tri-

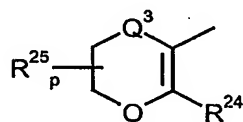
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fluoromethoxy, difluoromethoxy, difluorochloromethoxy or trichloromethoxy and

R^{23} represents hydrogen, fluorine, chlorine, bromine, iodine, cyano, n-propyl, iso-propyl, n-butyl, iso-butyl, sec-butyl, tert-butyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, trichloromethyl, methoxy, ethoxy, methylthio, ethylthio, trifluoromethoxy, difluoromethoxy, difluorochloromethoxy, trichloromethoxy, methylsulphinyl or methylsulphonyl,

or

A represents a radical of the formula (A6)



(A6), wherein

R^{24} represents methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl and

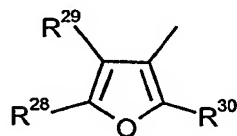
R^{25} represents methyl,

Q^3 represents a sulphur atom or CH_2 ,

p represents 0,

or

A represents a radical of the formula (A9)



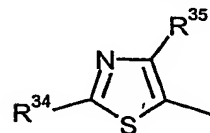
(A9), wherein

R^{28} and R^{29} independently of one another each represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl and

R^{30} represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

or

A represents a radical of the formula (A11)



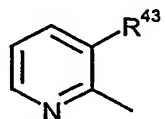
(A11), wherein

R^{34} represents hydrogen, fluorine, chlorine, bromine, amino, methylamino, dimethylamino, cyano, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl and

R^{35} represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

or

A represents a radical of the formula (A17)



(A17), wherein

R^{43} preferably represents fluorine, chlorine, bromine, iodine, methyl, ethyl, n-propyl, iso-propyl, n-butyl, iso-butyl, sec-butyl, tert-butyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, trichloromethyl,

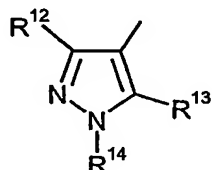
excluded compounds of the formula (I), in which

R represents hydrogen and

R^1 , R^2 and R^3 independently of one another each represents hydrogen, fluorine, chlorine, bromine; methyl, ethyl, n- or iso-propyl, n-, iso-, sec- or tert-butyl; or trifluoromethyl or trifluoroethyl; and

R^4 represents hydrogen and

A represents a radical of the formula (A1)



(A1), wherein

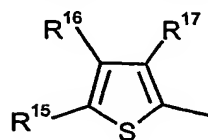
R^{12} represents fluorine, chlorine, bromine, iodine, methyl, ethyl, iso-propyl, monofluoromethyl, monofluoroethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, trichloromethyl, dichloromethyl and

R^{13} represents hydrogen and

R^{14} represents methyl,

or

A represents a radical of the formula (A2)



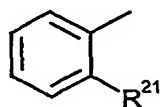
(A2), wherein

R^{15} and R^{16} independently of one another each represent hydrogen, methyl or ethyl and

R^{17} represents fluorine, chlorine, bromine, methyl, ethyl, or trifluoromethyl,

or

A represents a radical of the formula (A4)



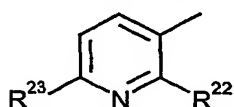
(A4), wherein

5

R^{21} represents fluorine, chlorine, bromine, iodine, methyl, ethyl, n-propyl, iso-propyl, n-butyl, iso-butyl, sec-butyl, tert-butyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, trichloromethyl,

or

A represents a radical of the formula (A5)



(A5), wherein

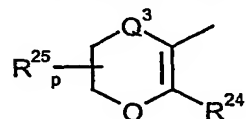
10

R^{22} represents fluorine, chlorine, bromine, iodine and

R^{23} represents hydrogen,

or

A represents a radical of the formula (A6)



(A6), wherein

15

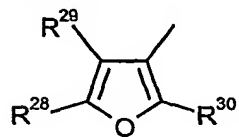
R^{24} represents methyl and

Q^3 represents a sulphur or CH_2 ,

p represents 0,

or

A represents a radical of the formula (A9)



(A9), wherein

20

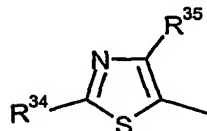
R^{28} and R^{29} independently of one another each represent hydrogen, methyl or ethyl
and

R^{30} represents methyl,

or

25

A represents a radical of the formula (A11)



(A11), wherein

R^{34} represents hydrogen, methyl or ethyl and

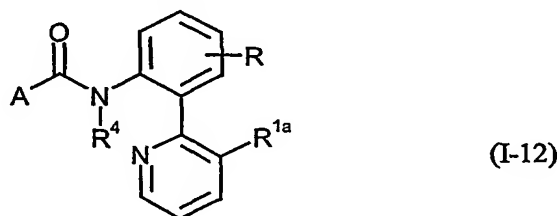
R^{35} represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl.

5 4. Pyridinylanilides of the formula (I) according to Claims 1, 2 or 3, in which R^4 represents hydrogen.

5. Pyridinylanilides of the formula (I) according to Claims 1, 2 or 3, in which R represents hydrogen.

10

6. Pyridinylanilides of the formula (I-12)



in which

R, R^4 and A are as defined in Claims 1, 2 or 3 and

15 R^{1a} represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thio-carbamoyl;

or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkyl-sulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;

20 or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

25 or represents in each case straight-chain or branched halogenoalkenyl or halogeno-alkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

or represents in each case straight-chain or branched alkylamino, dialkylamino, alkyl-carbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocar-bonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms
30 in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

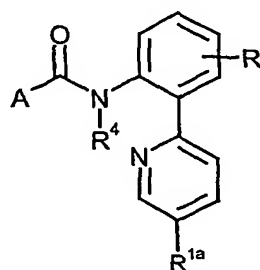
or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

or represents the grouping $-C(Q^1)=N-Q^2$, wherein

Q^1 represents hydrogen, hydroxyl or C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl having 1 to 9 identical or different halogen atoms, or C_3 - C_6 -cycloalkyl and

Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino or phenyl; or represents C_2 - C_4 -alkenyloxy or C_2 - C_4 -alkynyloxy, represents phenyl, phenoxy, phenylthio, benzoyl, benzoylethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C_1 - C_4 -alkyl and C_1 - C_4 -alkoxy.

7. Pyridinylanilides of the formula (I-13)



(I-13)

in which

R , R^4 and A are as defined in Claims 1, 2 or 3 and

R^{1a} represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thio-carbamoyl;

or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkyl-sulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;

or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxy carbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

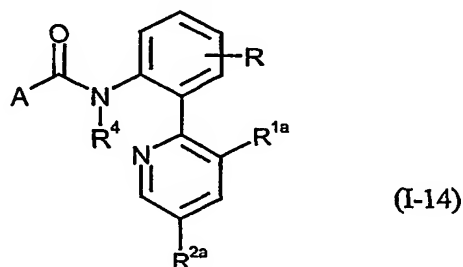
or represents the grouping $-C(Q^1)=N-Q^2$, wherein

Q^1 represents hydrogen, hydroxyl or C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl having 1 to 9 identical or different halogen atoms, or C_3 - C_6 -cycloalkyl and

Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino or phenyl; or represents C_2 - C_4 -alkenyloxy or C_2 - C_4 -alkynyloxy,

represents phenyl, phenoxy, phenylthio, benzoyl, benzoyl ethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C_1 - C_4 -alkyl and C_1 - C_4 -alkoxy.

8. Pyridinylanilides of the formula (I-14)



in which

R , R^4 and A are as defined in Claims 1, 2 or 3 and

R^{1a} and R^{2a} independently of one another each represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl;

or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkylsulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;

or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

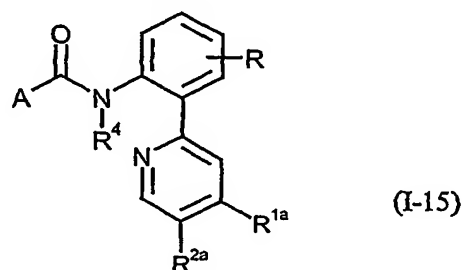
or represents the grouping $-C(Q^1)=N-Q^2$, wherein

Q^1 represents hydrogen, hydroxyl or C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl having 1 to 9 identical or different halogen atoms, or C_3 - C_6 -cycloalkyl and

Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino or phenyl; or represents C_2 - C_4 -alkenyloxy or C_2 - C_4 -alkynyloxy,

represents phenyl, phenoxy, phenylthio, benzoyl, benzoylthio, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C_1 - C_4 -alkyl and C_1 - C_4 -alkoxy.

9. Pyridinylanilides of the formula (I-15)

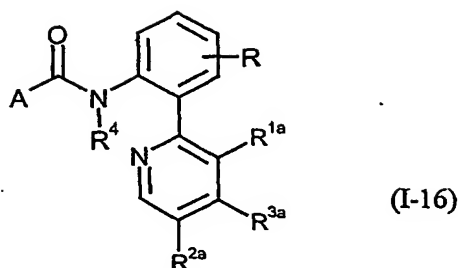


in which

R , R^4 and A are as defined in Claims 1, 2 or 3 and

R^{1a} and R^{2a} independently of one another each represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl;
 or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkylsulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;
 or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;
 or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;
 or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;
 or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;
 or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;
 or represents the grouping $-C(Q^1)=N-Q^2$, wherein
 Q^1 represents hydrogen, hydroxyl or C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl having 1 to 9 identical or different halogen atoms, or C_3 - C_6 -cycloalkyl and
 Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino or phenyl; or represents C_2 - C_4 -alkenyloxy or C_2 - C_4 -alkynyloxy,
 represents phenyl, phenoxy, phenylthio, benzoyl, benzoylphenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C_1 - C_4 -alkyl and C_1 - C_4 -alkoxy.

10. Pyridinylanilides of the formula (I-16)



in which

R, R⁴ and A are as defined in Claims 1, 2 or 3 and

R^{1a}, R^{2a} and R^{3a} independently of one another each represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl;

or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkylsulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;

or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxy carbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

or represents the grouping -C(Q¹)=N-Q², wherein

Q¹ represents hydrogen, hydroxyl or C₁-C₄-alkyl, C₁-C₄-halogenoalkyl having 1 to 9 identical or different halogen atoms, or C₃-C₆-cycloalkyl and

Q² represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C₁-C₄-alkyl or C₁-C₄-alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino or phenyl; or represents C₂-C₄-alkenyloxy or C₂-C₄-alkynyloxy,

represents phenyl, phenoxy, phenylthio, benzoyl, benzoyl ethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl

having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C₁-C₄-alkyl and C₁-C₄-alkoxy.

- 5 11. Process for preparing pyridinylanilides of the formula (I) according to Claim 1, characterized in that

- a) carboxylic acid derivatives of the formula (II)

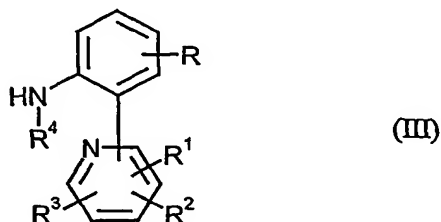


in which

10 X¹ represents halogen or hydroxyl and

A is as defined in Claim 1,

are reacted with amines of the formula (III)



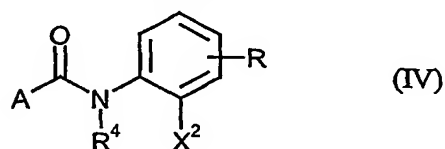
15 in which

R, R¹, R², R³ and R⁴ are as defined in Claim 1,

if appropriate in the presence of a catalyst, if appropriate in the presence of a condensing agent, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

20 or

- b) halogeno-carboxamides of the formula (IV)

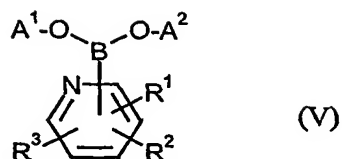


in which

R, R⁴ and A are as defined in Claim 1, and

25 X² represents bromine or iodine,

are reacted with boronic acid derivatives of the formula (V)



in which

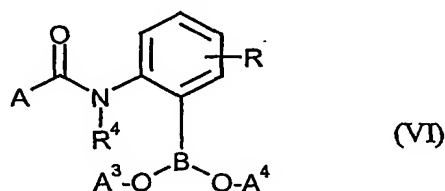
R¹, R² and R³ are as defined in Claim 1, and

A¹ and A² each represent hydrogen or together represent tetramethylethylene,

in the presence of a catalyst, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

or

c) carboxamide boronic acid derivatives of the formula (VI)

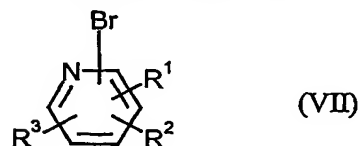


in which

R, R⁴ and A are as defined in Claim 1, and

A³ and A⁴ each represent hydrogen or together represent tetramethylethylene,

are reacted with pyridinyl derivatives of the formula (VII)



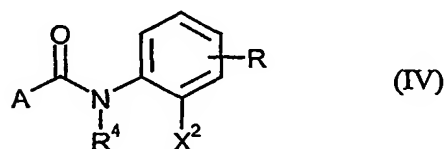
in which

R¹, R² and R³ are as defined in Claim 1,

in the presence of a catalyst, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

or

d) halogeno-carboxamides of the formula (IV)

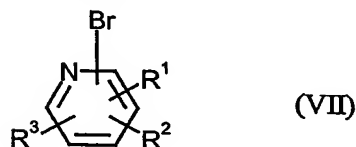


in which

R, R⁴ and A are as defined in Claim 1, and

X^2 represents bromine or iodine,

are reacted with pyridinyl derivatives of the formula (VII)



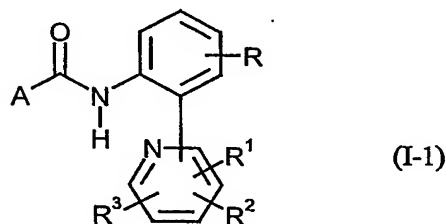
in which

R^1 , R^2 and R^3 are as defined in Claim 1,

in the presence of a palladium or platinum catalyst and in the presence of 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bis-1,3,2-dioxaborolane [bis(pinacolato)diboron], if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

or

e) pyridinylanilides of the formula (I-1)



in which

R , R^1 , R^2 , R^3 and A are as defined in Claim 1,

are reacted with halogenides of the formula (VIII)



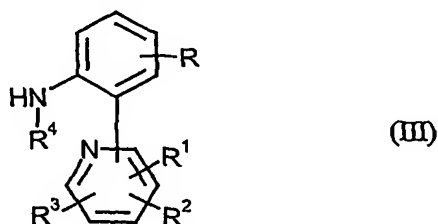
in which

X^3 represents chlorine, bromine or iodine,

R^{4a} represents C_1 - C_8 -alkyl, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -alkylsulfonyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -halogenoalkyl, C_1 - C_4 -halogenoalkylthio, C_1 - C_4 -halogenoalkylsulfinyl, C_1 - C_4 -halogenoalkylsulfonyl, halogeno- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halogenocycloalkyl having in each case 1 to 9 fluorine-, chlorine- and/or bromine atoms; formyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; (C_1 - C_3 -halogenoalkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -halogenoalkoxy)carbonyl- C_1 - C_3 -alkyl having in each case 1 to 7 fluorine-, chlorine- and/or bromine atoms,

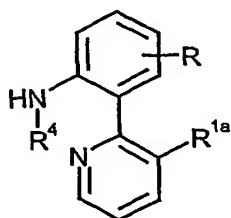
- 5 (C₁-C₃-alkyl)carbonyl-C₁-C₃-halogenoalkyl, (C₁-C₃-alkoxy)carbonyl-C₁-C₃-halogenoalkyl having in each case 1 to 6 fluorine-, chlorine- and/or bromine atoms, (C₁-C₃-halogenoalkyl)carbonyl-C₁-C₃-halogenoalkyl, (C₁-C₃-halogenoalkoxy)carbonyl-C₁-C₃-halogenoalkyl having in each case 1 to 13 fluorine-, chlorine- and/or bromine atoms; -COR⁵, -CONR⁶R⁷ or -CH₂NR⁸R⁹,
 R⁵, R⁶, R⁷, R⁸ and R⁹ are as defined in Claim 1,
 in the presence of a base and in the presence of a diluent.

- 10 12. Compositions for controlling unwanted microorganisms, characterized in that they comprise at least one pyridinylanilide of the formula (I) according to Claim 1, in addition to extenders and/or surfactants.
- 15 13. Use of pyridinylanilides of the formula (I) according to Claim 1 for controlling unwanted microorganisms.
14. Method for controlling unwanted microorganisms, characterized in that pyridinylanilides of the formula (I) according to Claim 1 are applied to the microorganisms and/or their habitats.
- 20 15. Process for preparing compositions for controlling unwanted microorganisms, characterized in that pyridinylanilides of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.
16. Amines of the formula (III)



- 25 in which
 R, R¹, R², R³ and R⁴ are as defined in Claim 1,
 excluded compounds of the formula (III), in which
 R represents hydrogen and ^
 R¹, R² and R³ independently of one another each represents hydrogen, halogen, straight-chain
 30 or branched alkyl having 1 to 4 carbon atoms or straight-chain or branched
 halogenoalkyl having 1 to 4 carbon atoms; and R⁴ represents hydrogen.

17. Amines of the formula



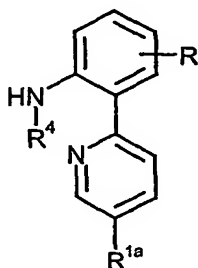
in which

R and R⁴ are as defined in Claims 1, 2 or 3 and

- 5 R^{1a} represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thio-carbamoyl;
 or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkyl-sulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;
 10 or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;
 or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;
 15 or represents in each case straight-chain or branched halogenoalkenyl or halogeno-alkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;
 or represents in each case straight-chain or branched alkylamino, dialkylamino, alkyl-carbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocar-bonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms
 20 in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;
 or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;
 or represents the grouping -C(Q¹)=N-Q², wherein
 25 Q¹ represents hydrogen, hydroxyl or C₁-C₄-alkyl, C₁-C₄-halogenoalkyl having 1 to 9 identical or different halogen atoms, or C₃-C₆-cycloalkyl and
 Q² represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C₁-C₄-alkyl or C₁-C₄-alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylamino, di(C₁-C₄-
 30 alkyl)amino or phenyl; or represents C₂-C₄-alkenyloxy or C₂-C₄-alkynyloxy, represents phenyl, phenoxy, phenylthio, benzoyl, benzoylthio, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl

having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C₁-C₄-alkyl and C₁-C₄-alkoxy.

5 18. Amines of the formula



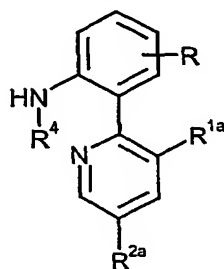
in which

R and R⁴ are as defined in Claims 1, 2 or 3 and

- 10 R^{1a} represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thio-carbamoyl;
or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkyl-sulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;
or represents in each case straight-chain or branched alkenyl or alkenyloxy having in
15 each case 2 to 6 carbon atoms;
or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;
or represents in each case straight-chain or branched halogenoalkenyl or halogeno-
20 alkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;
or represents in each case straight-chain or branched alkylamino, dialkylamino, alkyl-carbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocar-bonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms
25 in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;
or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;
or represents the grouping -C(Q¹)=N-Q², wherein
Q¹ represents hydrogen, hydroxyl or C₁-C₄-alkyl, C₁-C₄-halogenoalkyl having 1
30 to 9 identical or different halogen atoms, or C₃-C₆-cycloalkyl and

Q² represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C₁-C₄-alkyl or C₁-C₄-alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino or phenyl; or represents C₂-C₄-alkenyloxy or C₂-C₄-alkynyloxy, represents phenyl, phenoxy, phenylthio, benzoyl, benzoylethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C₁-C₄-alkyl and C₁-C₄-alkoxy.

19. Amines of the formula



in which

R and R⁴ are as defined in Claims 1, 2 or 3 and

R^{1a} and R^{2a} independently of one another each represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl; or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkylsulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety; or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms; or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms; or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms; or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms

in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

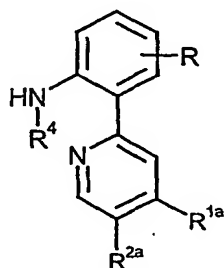
or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

or represents the grouping $-C(Q^1)=N-Q^2$, wherein

5 Q^1 represents hydrogen, hydroxyl or C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl having 1 to 9 identical or different halogen atoms, or C_3 - C_6 -cycloalkyl and

Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino or phenyl; or represents C_2 - C_4 -alkenyloxy or C_2 - C_4 -alkynyloxy, represents phenyl, phenoxy, phenylthio, benzoyl, benzoylthenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C_1 - C_4 -alkyl and C_1 - C_4 -alkoxy.

20. Amines of the formula



in which

20 R and R^4 are as defined in Claims 1, 2 or 3 and

R^{1a} and R^{2a} independently of one another each represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl; or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkyl-sulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety; or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms; or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxy carbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

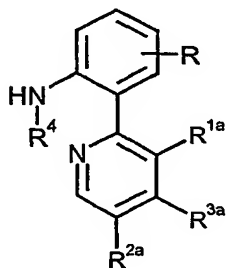
or represents the grouping $-C(Q^1)=N-Q^2$, wherein

Q^1 represents hydrogen, hydroxyl or C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl having 1 to 9 identical or different halogen atoms, or C_3 - C_6 -cycloalkyl and

Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino or phenyl; or represents C_2 - C_4 -alkenyloxy or C_2 - C_4 -alkynyloxy,

represents phenyl, phenoxy, phenylthio, benzoyl, benzoyl ethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C_1 - C_4 -alkyl and C_1 - C_4 -alkoxy.

21. Amines of the formula



in which

R and R^4 are as defined in Claims 1, 2 or 3 and

R^{1a} , R^{2a} and R^{3a} independently of one another each represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxyl, carbamoyl, thiocarbamoyl;

or represents in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulfinyl or alkylsulfonyl having in each case 1 to 8 carbon atoms in the respective alkyl moiety;

or represents in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

or represents in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulfinyl or halogenoalkylsulfonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

or represents in each case straight-chain or branched halogenoalkenyl or halogenoalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

or represents in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chain, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chain;

or represents cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

or represents the grouping $-C(Q^1)=N-Q^2$, wherein

Q^1 represents hydrogen, hydroxyl or C_1 - C_4 -alkyl, C_1 - C_4 -halogenoalkyl having 1 to 9 identical or different halogen atoms, or C_3 - C_6 -cycloalkyl and

Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl; or represents C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, each of which is optionally substituted by halogen, cyano, hydroxyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino or phenyl; or represents C_2 - C_4 -alkenyloxy or C_2 - C_4 -alkynyloxy,

represents phenyl, phenoxy, phenylthio, benzoyl, benzoylethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which is optionally mono- to tri-substituted, identically or differently, in the ring moiety by halogen, in each case straight-chain or branched C_1 - C_4 -alkyl and C_1 - C_4 -alkoxy.